Abstract

A transport system, comprising:

(a) an underfloor high frequency alternate current primary conductor (10,10') for providing an electromagnetic field extending along said primary conductor for inductive energy transfer,

(b) at least one electric transport vehicle (30) comprising:

(b-1) two individually controllable and individually drivable drive wheels (36;38),

(b-2) at least one pick-up unit (32) with a secondary conductor for said inductive energy transfer, said pick-up unit being pivotable relative to said vehicle and comprising at least one idle roller (40) adapted for being continuously contacted with the travel surface,

(b-3) a sensor unit (34) adapted for sensing continuously a floor track signal,

(b-4) a control unit which controls said two drive wheels in response to signals of said sensor unit for minimizing a deviation of said vehicle from said floor track signal,

whereby said two drive wheels are arranged at a suitable distance in driving direction behind the axis around which the pick-up unit is pivotable for maintaining said pick-up unit essentially within said electromagnetic field during travel for a maximum of said energy transfer.